

## **Part II Genetic Pathology Lectures**

### **Non Mendelian Inheritance**

#### **Reading list**

Knight JC. Allele-specific gene expression uncovered. *Trends Genet.* 2004 Mar;20(3):113-6. Review. PubMed PMID: 15049300.

Brady BL, Steinel NC, Bassing CH. Antigen receptor allelic exclusion: an update and reappraisal. *J Immunol.* 2010 Oct 1;185(7):3801-8. doi:10.4049/jimmunol.1001158. Review. PubMed PMID: 20858891; PubMed Central PMCID:PMC3008371.

Lomvardas S, Barnea G, Pisapia DJ, Mendelsohn M, Kirkland J, Axel R. Interchromosomal interactions and olfactory receptor choice. *Cell.* 2006 Jul 28;126(2):403-13. PubMed PMID: 16873069.

Schwartz M, Vissing J. New patterns of inheritance in mitochondrial disease. *Biochem Biophys Res Commun.* 2003 Oct 17;310(2):247-51. Review. PubMed PMID: 14521902.

Chen JM, et al. Gene conversion: mechanisms, evolution and human disease. *Nat Rev Genet.* 2007 Oct;8(10):762-75. Review. PubMed PMID: 17846636.

Latham KE. X chromosome imprinting and inactivation in preimplantation mammalian embryos. *Trends Genet.* 2005 Feb;21(2):120-7. Review. PubMed PMID: 15661358.

Tang WW, Dietmann S, Irie N, Leitch HG, Floros VI, Bradshaw CR, Hackett JA, Chinnery PF, Surani MA. A Unique Gene Regulatory Network Resets the Human Germline Epigenome for Development. *Cell.* 2015 Jun 4;161(6):1453-67. doi: 10.1016/j.cell.2015.04.053. PubMed PMID: 26046444; PubMed Central PMCID: PMC4459712.

Radford EJ, Ito M, Shi H, Corish JA, Yamazawa K, Isganaitis E, Seisenberger S, Hore TA, Reik W, Erkek S, Peters AH, Patti ME, Ferguson-Smith AC. In utero effects. In utero undernourishment perturbs the adult sperm methylome and intergenerational metabolism. *Science.* 2014 Aug 15;345(6198):1255903. doi: 10.1126/science.1255903. Epub 2014 Jul 10. PubMed PMID: 25011554; PubMed Central PMCID: PMC4404520.

**Text books**

Strachan T. Genetics and genomics in medicine/ Strachan, Goodship and Chinnery.

Strachan T. Human molecular genetics/ Strachan and Read. 4<sup>th</sup> ed.